

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/667,271A  
Source: FW16  
Date Processed by STIC: 6/16/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06



IFW16

## RAW SEQUENCE LISTING

DATE: 06/16/2006

PATENT APPLICATION: US/10/667,271A

TIME: 11:46:30

Input Set : F:\02-763-B Sequence Listing.txt

Output Set: N:\CRF4\06162006\J667271A.raw

3 <110> APPLICANT: Sirna Therapeutics  
 4 McSwiggen, James  
 5 Macejak, Dennis  
 6 Beigelman, Leonid  
 7 Morrissey, David  
 9 <120> TITLE OF INVENTION: RNA Interference Mediated Inhibition of Hepatitis C Virus  
 (HCV)  
 10 Gene Expression Using Short Interfering Nucleic Acid (siNA)  
 12 <130> FILE REFERENCE: 400/129 (MBHB02-763B)  
 14 <140> CURRENT APPLICATION NUMBER: 10/667,271A  
 15 <141> CURRENT FILING DATE: 2003-09-16  
 17 <150> PRIOR APPLICATION NUMBER: US 10/444,853  
 18 <151> PRIOR FILING DATE: 2003-05-23 *Close up spaces*  
 20 <150> PRIOR APPLICATION NUMBER: PCT/US03/05043  
 21 <151> PRIOR FILING DATE: 2003-02-20  
 23 <150> PRIOR APPLICATION NUMBER: PCT/US02/09187  
 24 <151> PRIOR FILING DATE: 2002-03-26  
 26 <150> PRIOR APPLICATION NUMBER: USSN 60/401,104  
 27 <151> PRIOR FILING DATE: 2002-08-05  
 29 <150> PRIOR APPLICATION NUMBER: USSN 60/358,580  
 30 <151> PRIOR FILING DATE: 2002-02-20  
 32 <150> PRIOR APPLICATION NUMBER: USSN 60/363,124  
 33 <151> PRIOR FILING DATE: 2002-03-11  
 35 <150> PRIOR APPLICATION NUMBER: USSN 60/386,782  
 36 <151> PRIOR FILING DATE: 2002-06-06  
 38 <150> PRIOR APPLICATION NUMBER: USSN 60/406,784  
 39 <151> PRIOR FILING DATE: 2002-08-29  
 41 <150> PRIOR APPLICATION NUMBER: USSN 60/408,378  
 42 <151> PRIOR FILING DATE: 2002-09-05  
 44 <150> PRIOR APPLICATION NUMBER: USSN 60/409,293  
 45 <151> PRIOR FILING DATE: 2002-09-09  
 47 <150> PRIOR APPLICATION NUMBER: USSN 60/440,129  
 48 <151> PRIOR FILING DATE: 2003-01-15  
 50 <160> NUMBER OF SEQ ID NOS: 1706  
 52 <170> SOFTWARE: PatentIn version 3.2  
 54 <210> SEQ ID NO: 1  
 55 <211> LENGTH: 19  
 56 <212> TYPE: RNA  
 57 <213> ORGANISM: Artificial Sequence  
 59 <220> FEATURE:  
 60 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA  
 sense region  
 62 <400> SEQUENCE: 1  
 63 gccccgggag guccguag

*pp 11-12, 15*  
**Does Not Comply  
 Corrected Diskette Needed**

19

66 <210> SEQ ID NO: 2

## RAW SEQUENCE LISTING

DATE: 06/16/2006

PATENT APPLICATION: US/10/667,271A

TIME: 11:46:30

Input Set : F:\02-763-B Sequence Listing.txt

Output Set: N:\CRF4\06162006\J667271A.raw

67 <211> LENGTH: 19  
68 <212> TYPE: RNA  
69 <213> ORGANISM: Artificial Sequence  
71 <220> FEATURE:  
72 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense region  
74 <400> SEQUENCE: 2  
75 ugugguacug ccugauagg 19  
78 <210> SEQ ID NO: 3  
79 <211> LENGTH: 19  
80 <212> TYPE: RNA  
81 <213> ORGANISM: Artificial Sequence  
83 <220> FEATURE:  
84 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense region  
86 <400> SEQUENCE: 3  
87 uugugguacu gccugauag 19  
90 <210> SEQ ID NO: 4  
91 <211> LENGTH: 19  
92 <212> TYPE: RNA  
93 <213> ORGANISM: Artificial Sequence  
95 <220> FEATURE:  
96 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense region  
98 <400> SEQUENCE: 4  
99 ccccgggagg ucucguaga 19  
102 <210> SEQ ID NO: 5  
103 <211> LENGTH: 19  
104 <212> TYPE: RNA  
105 <213> ORGANISM: Artificial Sequence  
107 <220> FEATURE:  
108 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense region  
110 <400> SEQUENCE: 5  
111 gugguacugc cugauaggg 19  
114 <210> SEQ ID NO: 6  
115 <211> LENGTH: 19  
116 <212> TYPE: RNA  
117 <213> ORGANISM: Artificial Sequence  
119 <220> FEATURE:  
120 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense region  
122 <400> SEQUENCE: 6  
123 cugccugaua gggugcuug 19  
126 <210> SEQ ID NO: 7  
127 <211> LENGTH: 19  
128 <212> TYPE: RNA  
129 <213> ORGANISM: Artificial Sequence  
131 <220> FEATURE:  
132 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense region  
134 <400> SEQUENCE: 7  
135 ccuuguggua cugccugau 19

138 <210> SEQ ID NO: 8  
139 <211> LENGTH: 19

## RAW SEQUENCE LISTING

DATE: 06/16/2006

PATENT APPLICATION: US/10/667,271A

TIME: 11:46:30

Input Set : F:\02-763-B Sequence Listing.txt

Output Set: N:\CRF4\06162006\J667271A.raw

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140 <212> TYPE: RNA
141 <213> ORGANISM: Artificial Sequence
143 <220> FEATURE:
144 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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146 <400> SEQUENCE: 8
147 gcgaaaggcc uugugguac 19
150 <210> SEQ ID NO: 9
151 <211> LENGTH: 19
152 <212> TYPE: RNA
153 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
158 <400> SEQUENCE: 9
159 uacugccuga uaggugcu 19
162 <210> SEQ ID NO: 10
163 <211> LENGTH: 19
164 <212> TYPE: RNA
165 <213> ORGANISM: Artificial Sequence
167 <220> FEATURE:
168 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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170 <400> SEQUENCE: 10
171 gguacugccu gauaggug 19
174 <210> SEQ ID NO: 11
175 <211> LENGTH: 19
176 <212> TYPE: RNA
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
182 <400> SEQUENCE: 11
183 aaaggccuug ugguacugc 19
186 <210> SEQ ID NO: 12
187 <211> LENGTH: 19
188 <212> TYPE: RNA
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
194 <400> SEQUENCE: 12
195 aaggccuugu gguacugcc 19
198 <210> SEQ ID NO: 13
199 <211> LENGTH: 19
200 <212> TYPE: RNA
201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
206 <400> SEQUENCE: 13
207 cuugugguac ugccugaua 19
210 <210> SEQ ID NO: 14

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211 <211> LENGTH: 19  
212 <212> TYPE: RNA

## RAW SEQUENCE LISTING

DATE: 06/16/2006

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TIME: 11:46:30

Input Set : F:\02-763-B Sequence Listing.txt

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213 <213> ORGANISM: Artificial Sequence

215 <220> FEATURE:

216 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense region

218 <400> SEQUENCE: 14

219 aggccuugug guacugccu 19

222 <210> SEQ ID NO: 15

223 <211> LENGTH: 19

224 <212> TYPE: RNA

225 <213> ORGANISM: Artificial Sequence

227 <220> FEATURE:

228 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense region

230 <400> SEQUENCE: 15

231 guacugccug auaggugc 19

234 <210> SEQ ID NO: 16

235 <211> LENGTH: 19

236 <212> TYPE: RNA

237 <213> ORGANISM: Artificial Sequence

239 <220> FEATURE:

240 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense region

242 <400> SEQUENCE: 16

243 acugccugau agggugcuu 19

246 <210> SEQ ID NO: 17

247 <211> LENGTH: 19

248 <212> TYPE: RNA

249 <213> ORGANISM: Artificial Sequence

251 <220> FEATURE:

252 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense region

254 <400> SEQUENCE: 17

255 cuugcgagug ccccgagg 19

258 <210> SEQ ID NO: 18

259 <211> LENGTH: 19

260 <212> TYPE: RNA

261 <213> ORGANISM: Artificial Sequence

263 <220> FEATURE:

264 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense region

266 <400> SEQUENCE: 18

267 cugauagggu gcuugcgag 19

270 <210> SEQ ID NO: 19

271 <211> LENGTH: 19

272 <212> TYPE: RNA

273 <213> ORGANISM: Artificial Sequence

275 <220> FEATURE:

276 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense region

278 <400> SEQUENCE: 19

279 uugcgagug cccggagg 19

282 <210> SEQ ID NO: 20

283 <211> LENGTH: 19

284 <212> TYPE: RNA

285 <213> ORGANISM: Artificial Sequence

## RAW SEQUENCE LISTING

DATE: 06/16/2006

PATENT APPLICATION: US/10/667,271A

TIME: 11:46:30

Input Set : F:\02-763-B Sequence Listing.txt

Output Set: N:\CRF4\06162006\J667271A.raw

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287 <220> FEATURE:
288 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
290 <400> SEQUENCE: 20
291 ccugauaggg ugcugcga 19
294 <210> SEQ ID NO: 21
295 <211> LENGTH: 19
296 <212> TYPE: RNA
297 <213> ORGANISM: Artificial Sequence
299 <220> FEATURE:
300 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
302 <400> SEQUENCE: 21
303 ggccuugugg uacugccug 19
306 <210> SEQ ID NO: 22
307 <211> LENGTH: 19
308 <212> TYPE: RNA
309 <213> ORGANISM: Artificial Sequence
311 <220> FEATURE:
312 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
314 <400> SEQUENCE: 22
315 gcuugcgagu gccccggga 19
318 <210> SEQ ID NO: 23
319 <211> LENGTH: 19
320 <212> TYPE: RNA
321 <213> ORGANISM: Artificial Sequence
323 <220> FEATURE:
324 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
326 <400> SEQUENCE: 23
327 ugccugauag ggugcuugc 19
330 <210> SEQ ID NO: 24
331 <211> LENGTH: 19
332 <212> TYPE: RNA
333 <213> ORGANISM: Artificial Sequence
335 <220> FEATURE:
336 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
338 <400> SEQUENCE: 24
339 gaaaggccuu gugguacug 19
342 <210> SEQ ID NO: 25
343 <211> LENGTH: 19
344 <212> TYPE: RNA
345 <213> ORGANISM: Artificial Sequence
347 <220> FEATURE:
348 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
350 <400> SEQUENCE: 25
351 gccugauagg gugcuugcg 19
354 <210> SEQ ID NO: 26
355 <211> LENGTH: 19
356 <212> TYPE: RNA

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357 <213> ORGANISM: Artificial Sequence  
359 <220> FEATURE:

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/667,271A

DATE: 06/16/2006  
TIME: 11:46:31

Input Set : F:\02-763-B Sequence Listing.txt  
Output Set: N:\CRF4\06162006\J667271A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1421; N Pos. 20,21  
Seq#:1422; N Pos. 20,21  
Seq#:1423; N Pos. 20,21  
Seq#:1424; N Pos. 20,21  
Seq#:1425; N Pos. 20,21  
Seq#:1426; N Pos. 20,21  
Seq#:1427; N Pos. 20,21  
Seq#:1428; N Pos. 20,21  
Seq#:1429; N Pos. 20,21  
Seq#:1430; N Pos. 20,21  
Seq#:1431; N Pos. 20,21  
Seq#:1432; N Pos. 20,21  
Seq#:1433; N Pos. 20,21  
Seq#:1434; N Pos. 20,21  
Seq#:1435; N Pos. 1,2  
Seq#:1436; N Pos. 1,2  
Seq#:1437; N Pos. 1,2  
Seq#:1438; N Pos. 1,2  
Seq#:1439; N Pos. 1,2  
Seq#:1440; N Pos. 1,2  
Seq#:1441; N Pos. 1,2  
Seq#:1442; N Pos. 1,2  
Seq#:1443; N Pos. 1,2  
Seq#:1444; N Pos. 1,2  
Seq#:1445; N Pos. 1,2  
Seq#:1446; N Pos. 1,2  
Seq#:1447; N Pos. 1,2  
Seq#:1448; N Pos. 1,2  
Seq#:1477; N Pos. 20,21  
Seq#:1478; N Pos. 20,21  
Seq#:1479; N Pos. 20,21  
Seq#:1480; N Pos. 20,21  
Seq#:1481; N Pos. 20,21  
Seq#:1482; N Pos. 20,21  
Seq#:1483; N Pos. 20,21  
Seq#:1484; N Pos. 20,21  
Seq#:1485; N Pos. 20,21  
Seq#:1486; N Pos. 20,21  
Seq#:1487; N Pos. 20,21  
Seq#:1488; N Pos. 20,21  
Seq#:1489; N Pos. 20,21  
Seq#:1491; N Pos. 20,21  
Seq#:1492; N Pos. 20,21  
Seq#:1493; N Pos. 20,21

VERIFICATION SUMMARY

DATE: 06/16/2006

PATENT APPLICATION: US/10/667,271A

TIME: 11:46:31

Input Set : F:\02-763-B Sequence Listing.txt

Output Set: N:\CRF4\06162006\J667271A.raw

L:19020 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1502 after pos.:0

L:19107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1503 after pos.:0

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<210> 1421  
<211> 21  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA sense region

<220>  
<221> misc\_feature  
<222> (20)..(21)  
<223> n stands for thymidine

<220>  
<221> misc\_feature  
<222> (20)..(21)  
<223> n stands for thymidine

<400> 1421  
ccccgggagg ucucguagan n

no Ts allowed in an RNA sequence, even if represented by "n"

delete - already shown

For a combined DNA/RNA sequence, use

<2127 DNA and replaces in <2207-2223> section

This error also appears in subsequent sequences